

U.S. Application No. 10/625,794
Reply to Office Action dated August 14, 2006

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450100-04667

IN THE CLAIMS

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This listing of claims will replace all prior versions, and listings, of claims in the application. An identifier indicating the status of each claim is provided.

Listing of Claims

1. (Currently Amended) A source-voltage-operated circuit comprising:
an operated circuit section operated according to a voltage supplied by ~~an electric power source~~ a battery, said operated circuit section having:
a series circuit of a coil and a first switching device, and
a light-emitting diode connected parallel to said coil,
wherein when said first switching device is turned on, a current flows from said battery through said coil and said first switching device, and when said first switching device is turned off, a loop current flows through said coil and said light-emitting diode;
a control-voltage-supplying circuit section for deriving a voltage higher than the voltage supplied by said electric power source from said operated circuit section to rectify the derived voltage having a second switching device and a capacitor, said second switching device connected to a connection point of said coil and said first switching device for controlling a direction of a current from said coil to said capacitor, and said capacitor storing a portion of energy from said switching operation of said first switching device and outputting the resultant voltage as an operating voltage, the resultant voltage being higher than the voltage supplied by said battery; and
a control circuit section operated according to the operating voltage for controlling the operation of said operated circuit section and stopping the operation of said

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operated circuit section when the operating voltage is decreased ~~to~~below a given reset voltage ~~or~~
~~below.~~

2. (Currently Amended) The source-voltage-operated circuit of claim 1,
wherein said control-voltage-supplying circuit section is provided with a limiter circuit for
~~restricting that restricts~~ the operating voltage of said control circuit section so as not to
substantially increase ~~excessively above~~ a given voltage.

3. (Currently Amended) The source-voltage-operated circuit of claim 1,
~~wherein said electric power source is an electric power source such that a supply voltage thereof~~
fluctuates said given reset voltage is set to a voltage less than a drained voltage of said battery.

4. (Canceled)

5. (Currently Amended) The source-voltage-operated circuit of claim 1,
~~wherein said operated circuit section is a circuit section for carrying out the operation of~~
~~outputting an infrared modulating signal~~ said light-emitting diode outputs infrared rays, and said
control circuit section ~~is a circuit section for carrying out the controls of causing said operated~~
~~circuit section to output a signal~~ said first switching device in response to an operational input ~~as~~
~~the infrared modulating signal.~~

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6. (New) A remote commander comprising:

an operated circuit section operated according to a voltage supplied by a battery,
said operated circuit section having:

a series circuit of a coil and a first switching device, and

a light-emitting diode connected parallel to said coil,

wherein when said first switching device is turned on, a current flows from said battery through said coil and said first switching device, and when said first switching device is turned off, a loop current flows through said coil and said light-emitting diode;

a control-voltage-supplying circuit section having a second switching device and a capacitor, said second switching device connected to a connection point of said coil and said first switching device for controlling a direction of a current only from said coil to said capacitor, and said capacitor storing a portion of energy caused by said switching operation of said first switching device and outputting the resultant voltage as an operating voltage, the resultant voltage being higher than the voltage supplied by said battery; and

a control circuit section operated according to the operating voltage for controlling the operation of said operated circuit section and stopping the operation of said operated circuit section when the operating voltage is decreased below a given reset voltage.